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JUL 26 2002

TECH CENTER 1600/2900

Underlined = deleted in targeting construct

Bold = sequence flanking Neo insert in targeting construct

AAATATTTTCCCTTGACCTAATGCCATCTTGTGTCCCTTGCGAGCCCTATTCCCTAACATG
GCTGATGACTATGGCTCTGAATCCACATCTTCCATGGAAGACTACGTTAACTTCAACTTC
ACTGACTTCTACTGTGAGAAAAACAATGTCAGGCAGTTTGGCGAGCCATTTCTCCACCC
TTGTACTGGCTCGTGTTCATCGTGGGTGCCCTTGGGCAACAGTCTTGTTAT CCTTGCTCTAC
TGGTACTGCACAAGAGTGAAGACCATGACCGACATGTTCCCTTTTGAATTTGGCAATTGCT
GACCTCCTCTTTCTTGTCACTCTTCCCTTCTGGGCCATTGCTGCTGCTGACCATGGAAG
TTCCAGACCTTTCATGTGCAAGGTGGTCAACAGCA **TGTACAAGATGAACCTTACAGCTGT**
GTGTTGCTGATCATGTGCATCAGCGTGGACAGGTACATTGCCATTGCCCAGGCCATGAGA
GCACATACTTGGAGGGAGAAAAGGCTTTTGTACAGCAAAATGGTTTGTCTTTACCATCTGG
GTATTGGCAGCTGCTCTCTGCATCCCAGAAATCTTATACAGCCAAATCAAGGAGGAATCC
GGCATTGCTATCTGCACCATGGTTTACCCTAGCGATGAGAGCACCAAACTGAAGTCAGCT
GTCCTTGACCCTGAAGGTCACTCTGGGGTCTTCCCTTCCCTTCGTTGGTCAATGGCTTGCTGC
TATACCATCATCATTCACACCCTGATACAAGCCAAGAAGTCTTCCAAGCACAAAGCCCTA
AAAGTGACCATCACTGTCTGACCGTCTTTGTCTTGTCTCAGTTTCCCTACAACCTGCATT
T TGTGGTGCAGACCATTGACGCCTATGCCATGTTTCATCTCCAACCTGTGCCGTTTCCACC
AACATTGACATCTGCTTCCAGGTCACCCAGACCATCGCCTTCTTCCACAGTTGCCGTGAAC
CCTGTTCTCTATGTTTTTGTGGGTGAGAGATTCGCCCGGATCTCGTGAACCCCTGAAG
AACTTGGGTGTCATCAGCCAGGCCCAGTGGGTTTCAATTTACAAGGAGAGAGGGAAGCTTG
AAGCTGTCTCTATGTTGCTGGAGACAACCTCAGGAGCACTCTCCCTCTGAGGGTCTTCT
TCTGAGGTGCATGGTCTTTTGAAGAAATGAGAAATACATGAAACAGTTTCCCCACTGA
TGGGACCAGAGAGAGTGAAGAGAAAAGAAAATCAGAAAGGGATGAATCTGAACCTATAT
GATTACTTGTAGTCAGAATTTGCCAAAGCAATATTTCAAATCAACTGACTAGTGCAGG
AGGCTGTTGATTGGCTCTTGAAGTGTGATGCCCGCAATCTCAAAGGAGGACTAAGGACCG
GCACCTGTGGAGCACCTGGCTTTGCCACTCGCCGAGCATCAATGCCGCTGCCTCTGGAG
GAGCCCTTGGATTTTCTCCATGCACTGTGAACCTTCTGTGGCTTCAGTTCTCATGCTGCCT
CTTCCAAAAGGGGACACAGAAGCACTGGCTGCTGCTACAGACCGCAAAGCAGAAAGTTT
CGTGAATATGTCCATCTTTGGGAAATTTCTACCCTGCTCTTGAGCCTGATAACCCATGC
CAGGTCTTATAGATTCTGATCTAGAACCTTTCCAGGCAATCTCAGACCTAATTTCTCTC
TGTTCTCCTTGTTCTGTTCTGGGCCAGTGAAGTCTTGTCTGATTTTGAACGATCTG
CAGGTCTTGCCAGTGAACCCCTGGACAACCTGACCACACCCACAAGGCATCCAAAGTCTGT
TGGCTTCCAATCCATTTCTGTGCTCTGCTGGAGGTTTTAACCCTAGACAAGGATTCGCTT
ATTCTTGGTATGGTGACAGTGTCTCTCCATGGCCTGAGCAGGGAGATTATAACAGCTGG
GTTTCGAGGAGCCAGCCTTGGCCCTGTTGTAGGCTTGTCTGTTGAGTGGCACTTGCTTT
GGGTCCACCGTCTGTCTGCTCCCTAGAAAATGGGCTGGTCTTTTGGCCCTCTCTTTCT
GAGGCCCACTTTATTCTGAGGAATACAGTGAGCAGATATGGGCAGCAGCCAGGTAGGGCA
AAGGGGTGAAGCGCAGGCCTTGTGGAAGGCTATTTACTTCCATGCTTCTCTCTTTCTTA
CTCTATAGTGGCAACATTTTAAAGCTTTTAACTTAGAGATTAGGCTGAAAAAATAAGT
AATGGAATTCACCTTTGCATCTTTTGTGTCTTTCTTATCATGATTTGGCAAAATGCATCA
CCTTTGAAAATATTTACATATTGGAAGGTGCTTTTAAATGTGTATATGAAGCATTAAT
TACTTGTCACTTTCTTTACCCTGTCTCAATATTTAAGTGTGTGCAATTAAGATCAAT
AGATACATTAAGAGTGTGAAGGCTGGTCTGAAGGTAGTGAGCTATCTCAATCGGATTGTT
CACACTCAGTTACAGATTGAACCTTGTCTACTTCCCTGCTTCTCTCTCTACTGCAATTG
ACTAGTCTTTAAAAAAGTGTGAAGAGTAAGCAATAGGGATAAGGAAATAAGATCT

(SEQ ID NO: 1)

FIGURE 2A



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AAATATTTTCCTTGACCTAATGCCATCTTGTGTCCCCTTGCAGAGCCCTATTCCCTAACATG
GCTGATGACTATGGCTCTGAATCCACATCTTCCATGGAAGACTACGTTAACTTCAACTTC
ACTGACTTCTACTGTGAGAAAAACAATGTCAGGCAGTTTGCAGGCCATTTCCCTCCCACCC
TTGTACTGGCTCGTGTTCATCGTGGGTGCCCTTGGGCAACAGTCTTGTAT CCTTGTCTAC
TGGTACTGCACAAGAGTGAAGACCATGACCGACATGTTCCCTTTTGAATTTGGCAATTGCT
GACCTCCTCTTTCTTGTCACTCTTCCCTTCTGGGCCATTGCTGCTGCTGACCACTGGAAG
TTCCAGACCTTCATGTGCAAGGTGGTCAACAGCA **TGTACAAGATGAACTTCTACAGCTGT**
GTGTTGCTGATCATGTGCATCAGCGTGGACAGGTACATTGCCATTGCCCAGGCCATGAGA
GCACATACTTGGAGGGAGAAAAGGCTTTTGTACAGCAAAATGGTTTGTCTTACCATCTGG
GTATTGGCAGCTGCTCTCTGCATCCCAGAAATCTTATACAGCCAAATCAAGGAGGAATCC
GGCATTGCTATCTGCACCATGGTTTACCCTAGCGATGAGAGCACCAAACTGAAGTCAGCT
GCTCTTGACCCTGAAGGTCATTCTGGGGTTCTTCCCTTCCCTTCGTGGTTCATGGCTTGTGC
TATACCATCATTCACACCCTGATACAAGCCAAGAAGTCTTCCAAGCACAAAGCCCTA
AAAGTGACCATCACTGTCTGACCGTCTTTGTCTTGTCTCAGTTTCCCTACAACCTGCATT
T TGTGGTGCAGACCATTGACGCCTATGCCATGTTTCATCTCCAACCTGTGCCGTTTCCACC
AACATTGACATCTGCTTCCAGGTCACCCAGACCATCGCCTTCTTCCACAGTTGCCTGAAC
CCTGTTCTCTATGTTTTTGTGGGTGAGAGATTCGCCCGGATCTCGTGAACACCTGAAG
AACTTGGGTGCATCAGCCAGGCCAGTGGGTTTCATTTACAAGGAGAGAGGGAAGCTTG
AAGCTGTCTGCTATGTTGCTGGAGACAACCTCAGGAGCACTCTCCCTCTGAGGGTCTTC
TCTGAGGTGCATGGTTCTTTTGAAGAAATGAGAAATACATGAAACAGTTTCCCCACTGA
TGGGACCAGAGAGAGTGAAGAGAAAAAGAACTCAGAAAGGGATGAATCTGAACATATAT
GATTACTTGTAGTCAGAATTTGCCAAAGCAAATATTTCAAAATCAACTGACTAGTGCAGG
AGGCTGTTGATTGGCTCTTGACTGTGATGCCCGCAATTCTCAAAGGAGGACTAAGGCCG
GCACTGTGGAGCACCTGGCTTTGCCACTCGCCGAGCATCAATGCCGCTGCCTCTGGAG
GAGCCCTTGGATTTTCTCCATGCACTGTGAACCTCTGTGGCTTCAGTTCTCATGCTGCCT
CTTCCAAAAGGGGACACAGAAGCACTGGCTGCTGCTACAGACCGCAAAGCAGAAAGTTT
CGTGAAGATGTCCATCTTTGGGAAATTTTCTACCCTGCTCTTGAGCCTGATAACCCATGC
CAGGTCTTATAGATTCTGATCTAGAACCTTTCCAGGCAATCTCAGACCTAATTTCTTCT
TGTTCTCCTTGTTCTGTTCTGGGCCAGTGAAGTCTTGTCTGATTTTGAACGATCTG
CAGGTCTTGCCAGTGAACCCCTGGACAACCTGACCACCCACAAGGCATCCAAGTCTGT
TGGCTTCCAATCCATTTCTGTGCTGCTGGAGGTTTAACTAGACAAGGATTCCGCTT
ATTCTTGGTATGGTGACAGTGTCTCTCCATGGCCTGAGCAGGGAGATTATAACAGCTGG
GTTTCGAGGAGCCAGCCTTGGCCCTGTTGTAGGCTTGTCTGTTGAGTGGCACTTGCTTT
GGGTCCACCGTCTGTCTGCTCCCTAGAAAATGGGCTGGTCTTTTGGCCCTCTTCTTCT
GAGGCCCACTTTATTCTGAGGAATACAGTGAGCAGATATGGGCAGCAGCCAGGTAGGGCA
AAGGGTGAAGCGCAGGCCTTGTGGAAGGCTATTTACTTCCATGCTTCTCCTTTTCTTA
CTCTATAGTGGCAACATTTTAAAGCTTTTAACTTAGAGATTAGGCTGAAAAAATAAGT
AATGGAATTCACCTTTGCATCTTTTGTCTCTTCTTATCATGATTGGCAAAATGCATCA
CCTTTGAAAATATTTACATATTGCAAAAGTGCTTTTAAATGTGTATATGAAGCATTAAT
TACTTGTCACTTTCTTTACCCTGTCTCAATATTTAAGTGTGTGCAATTAAAGATCAAT
AGATACATTAAGAGTGTGAAGGCTGCTCTGAAGGTAGTGAGCTATCTCAATCGGATTGTT
CACACTCAGTTACAGATTGAACCTCTGTTCTACTTCCCTGCTTCTCTCTACTGCAATTG
ACTAGTCTTTAAAAAAGTGTGAAGAGTAAGCAATAGGGATAAGGAAATAAGATCT
(SEQ ID NO:1)

FIGURE 2A